PHP Solution – 1

Pro 1

```html
<!DOCTYPE html>

<html>

<body>

  <?php

    echo "Write your name";

  ?>

</body>

</html>
```

Pro 2

```html
<html>

<body>

  <form>

    <p>Enter principal amount</p>

    <input type="number" name="p" required>

    <p>Enter rate of interest per year</p>

    <input type="number" name="r" required>

    <p>Enter time period in years</p>

    <input type="number" name="t" required>
```

```php
    <input type="submit" name="sub" value="Submit">
  </form>
  <?php
  if (isset($_REQUEST['sub'])) {
    $p = $_REQUEST['p'];
    $r = $_REQUEST['r'];
    $t = $_REQUEST['t'];
    $si = ($p * $r * $t) / 100;
    echo "<h2>Simple Interest = $si</h2>";
  }
  ?>
</body>
</html>
```

Pro 3

```php
<!DOCTYPE html>
<html>
<head>
  <title></title>
</head>
<body>
  <?php
```

```php
    $side1 = 2;

    $side2 = 3;

    $area = $side1 * $side2;

    echo "<p>Area of rectangle: $area</p>";

  ?>
</body>
</html>
```

Pro 4

```php
<!DOCTYPE html>
<html>
<head>
   <title></title>
</head>
<body>
   <?php
     $first = "Hello";

     $second = "World";

     echo $first . " " . $second; // Output: Hello World

   ?>
</body>
</html>
```

Pro 5

```
<html>
<head>
    <title></title>
</head>
<body>
    <form method="post">
        <p>Enter 1st number:</p>
        <input type="number" name="num1">
        <p>Enter 2nd number:</p>
        <input type="number" name="num2">
        <p>Enter 3rd number:</p>
        <input type="number" name="num3">
        <br><br>
        <input type="submit" value="Check">
    </form>
    <?php
    if (isset($_POST['num1']) && isset($_POST['num2']) && isset($_POST['num3'])) {
        $a = $_POST['num1'];
        $b = $_POST['num2'];
        $c = $_POST['num3'];
        if ($a > $b && $a > $c) {
            echo "<h1>A is biggest: $a</h1>";
```

```
        } else if ($b > $a && $b > $c) {

            echo "<h1>B is biggest: $b</h1>";

        } else {

            echo "<h1>C is biggest: $c</h1>";

        }

    }

    ?>

</body>

</html>
```

Pro 6

```
<!DOCTYPE html>

<html>

<head>

    <title></title>

</head>

<body>

    <form method="post">

        <p>Enter a number:</p>

        <input type="number" name="num" required>

        <br><br>

        <input type="submit" name="sub" value="Check">

    </form>
```

```php
<?php
if (isset($_POST['sub'])) {

    $n = $_POST['num'];

    if ($n % 2 == 0) {

        echo "<h3>$n is Even</h3>";

    } else {

        echo "<h3>$n is Odd</h3>";

    }

}
?>
</body>
</html>
```

Pro 7

```html
<html>
<head>
    <title></title>
</head>
<body>
    <form>
        <p>Enter 1 number:</p>
        <input type="number" name="num1">
        <p>Enter 2 number:</p>
        <input type="number" name="num2">
        <input type="submit" name="sub" value="Check">
```

```php
    </form>
    <?php
    if (isset($_REQUEST['sub'])) {
        $num1 = $_REQUEST['num1'];
        $num2 = $_REQUEST['num2'];
        if ($num1 == $num2) {
            echo "<h1>$num1 and $num2 are equal</h1>";
        } else {
            echo "<h1>$num1 and $num2 are not equal</h1>";
        }
    }
    ?>
</body>
</html>
```

Pro 8

```html
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
    <form method="post">
```

```
    <p>Enter your name:</p>

    <input type="text" name="name" required>

    <input type="submit" name="sub" value="Convert">

  </form>

  <?php

  if (isset($_REQUEST['sub'])) {

    $name = strtoupper($_REQUEST['name']); // Convert to uppercase for consistency

    $length = strlen($name);

    echo "<h3>Converted Result:</h3><p>";

    for ($i = 0; $i < $length; $i++) {

      $char = $name[$i];

      // Check if it's an alphabet character

      if (ctype_alpha($char)) {

        $number = ord($char) - 64; // A=65 in ASCII, so A - 64 = 1

        echo "$char = $number<br>";

      } else {

        echo "$char is not a letter<br>";

      }

    }

    echo "</p>";

  }

  ?>

</body>

</html>
```

Pro 9

```html
<html>
<head>
  <title></title>
</head>
<body>
  <form method="post">
    <p>Enter a number (1-12):</p>
    <input type="number" name="num1" required>
    <br><br>
    <input type="submit" name="sub" value="Submit">
  </form>
  <?php
  if(isset($_REQUEST['sub'])) {
    $ch = $_REQUEST['num1'];
    switch($ch) {
      case 1:
        echo "January";
        break;
      case 2:
        echo "February";
        break;
      case 3:
        echo "March";
```

```php
      break;
   case 4:
      echo "April";
      break;
   case 5:
      echo "May";
      break;
   case 6:
      echo "June";
      break;
   case 7:
      echo "July";
      break;
   case 8:
      echo "August";
      break;
   case 9:
      echo "September";
      break;
   case 10:
      echo "October";
      break;
   case 11:
      echo "November";
      break;
   case 12:
```

```php
        echo "December";

        break;

    default:

        echo "Invalid number. Please enter a number between 1 and 12.";

    }

  }

  ?>

</body>

</html>
```

Pro 10

```php
<!DOCTYPE html>

<html>

<head>

    <title></title>

</head>

<body>

    <?php

  for($i=1; $i<=10; $i++)

  {

    echo "$i Hello <br>";

  }

    ?>
```

```
</body>

</html>
```

Pro 11

```html
<!DOCTYPE html>

<html>

<head>

   <title></title>

</head>

<body>

   <form method="post">

      <h3>Enter 10 numbers:</h3>

      <?php

      for ($i = 1; $i <= 10; $i++) {

         echo "Number $i: <input type='number' name='num[]' required><br><br>";

      }

      ?>

      <input type="submit" name="sub" value="Calculate Sum">

   </form>

   <?php

   if (isset($_POST['sub'])) {

      $numbers = $_POST['num'];

      $sum = 0;
```

```php
    foreach ($numbers as $n) {

        $sum += $n;

    }

    echo "<h2>The sum of the 10 numbers is: $sum</h2>";

  }

  ?>
</body>
</html>
```

Pro 12

```php
<!DOCTYPE html>

<html>

<head>

   <title></title>

</head>

<body>

   <h2>Multiplication Table of 10</h2>

   <?php

   $num = 10;

   for ($i = 1; $i <= 10; $i++) {

      $result = $num * $i;

      echo "$num x $i = $result<br>";
```

```php
        }
    ?>
</body>
</html>
```

Pro 13

```php
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
    <h2>Even Numbers Between 1 and 100:</h2>
    <?php
    for ($i = 1; $i <= 100; $i++) {
        if ($i % 2 == 0) {
            echo "$i ";
        }
    }
    ?>
</body>
</html>
```

Pro 14

```html
<!DOCTYPE html>

<html>

<head>

   <title></title>

</head>

<body>

   <h2>Factorial Calculator</h2>

   <form method="post">

      <label>Enter a number:</label>

      <input type="number" name="num" min="0" required>

      <input type="submit" name="sub" value="Calculate">

   </form>

   <?php

   if (isset($_POST['sub'])) {

      $num = $_POST['num'];

      $factorial = 1;

      if ($num == 0 || $num == 1) {

         $factorial = 1;

      } else {

         for ($i = 2; $i <= $num; $i++) {

            $factorial *= $i;

         }

      }

      echo "<h3>Factorial of $num is: $factorial</h3>";

   }
```

```php
    ?>
</body>
</html>
```

Pro 15

```html
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
    <?php
        echo "<h1>1</h1>";
        for($i=0; $i<=5; $i++) {
            for($j=0; $j<=$i; $j++){
                echo " *";
            }
            echo "<br>";
        }
        echo "<h1>2</h1>";
        for($i=1; $i<=5; $i++){
            for($j=1; $j<=$i; $j++){
                echo " $j";
```

```php
            }
            echo "<br>";
        }
        echo "<h1>3</h1>";
        for($i=1; $i<=5; $i++){
            for($j=1; $j<=$i; $j++){
                echo " $i";
            }
            echo "<br>";
        }
        echo "<h1>4</h1>";
        for($i='A'; $i<='E'; $i++){
            for($j='A'; $j<=$i; $j++){
                echo " $j";
            }
            echo "<br>";
        }
    ?>
</body>
</html>
```